

Thermoplastische Formmassen

Patent number: DE19920276
Publication date: 2000-11-09
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Classification:
 - **International:** C08K5/51; C08K5/5398; C08K5/29; C08K5/3492; C08L25/02; C08L75/04; C09K21/14; C08L67/02; C08L77/00; C08L71/12
 - **European:** C08K5/29; C08K5/49; C08L67/02; C08L77/00; C09K21/14
Application number: DE1991020276 19990504
Priority number(s): DE1991020276 19990504

Also published as:



WO0066658 (A1)

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Abstract of DE19920276

The invention relates to thermoplastic moulding materials containing A) between 10 and 99 % by weight of at least one thermoplastic polymer, B) between 1 and 50 % by weight of a mixture consisting of b1) at least one phosphorous compound and b2) at least one stabiliser compound of the general formulas (I) to (IV). In formula (I), R<1> and R<2> represent, independently of one another, a hydrogen radical, a C1 to C10-alkyl-radical, a C6 to C12-aryl radical, a C7 to C13 aralkyl radical, or a C7 to C13 alkylaryl radical, a, b independently of one another, have the values 1 to 5, c, d independently of one another, have the values 0 to 10. In formula (II), R<3> represents a hydrogen radical, a C1 to C10 alkyl radical, a C6 to C12 aryl radical, a C7 to C13 aralkyl radical, a C7 to C13 alkylaryl radical, e has the value 1 to 4, f has the value 1 to 100. In formula (III), R<4> and R<13> independently of one another, represent NCO or NHCOOR', whereby R' represents an alkyl polyetherglycol or an alcohol containing between 1 and 20 C-atoms, R<5>, R<6>, R<7>, R<8>, R<9>, R<10>, R<11>, R<12> independently of one another, represent a hydrogen radical, a C1 to C10 alkyl radical, a C6 to C12 aryl radical, a C7 to C13 aralkyl radical, a C7 to C13 alkylaryl radical, g indicates 0 to 5, h indicates 1 to 100. In formula (IV) R<14>, R<15>, R<16> independently of one another, represent a hydrogen radical or a radical (a), whereby R<17> represents a hydrogen radical, a C1 to C10 alkyl radical, a C6 to C12 aryl radical, a C7 to C13 aralkyl radical, a C7 to C13 alkylaryl radical, or (CH₂)₁-N=C=O, whereby 1 indicates 1 to 20, i indicates 2 to 8, j indicates 1 to i-k, k indicates 0 to i-j, whereby j + k ≤ i, or at least two of these groups. Said thermoplastic moulding materials also contain C) between 0 and 40 % by weight of a flame-retardant which is different from b1); and D) between 0 and 70 % by weight of additives. The weight percentages of components A) to D) always correspond to 100 %.

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